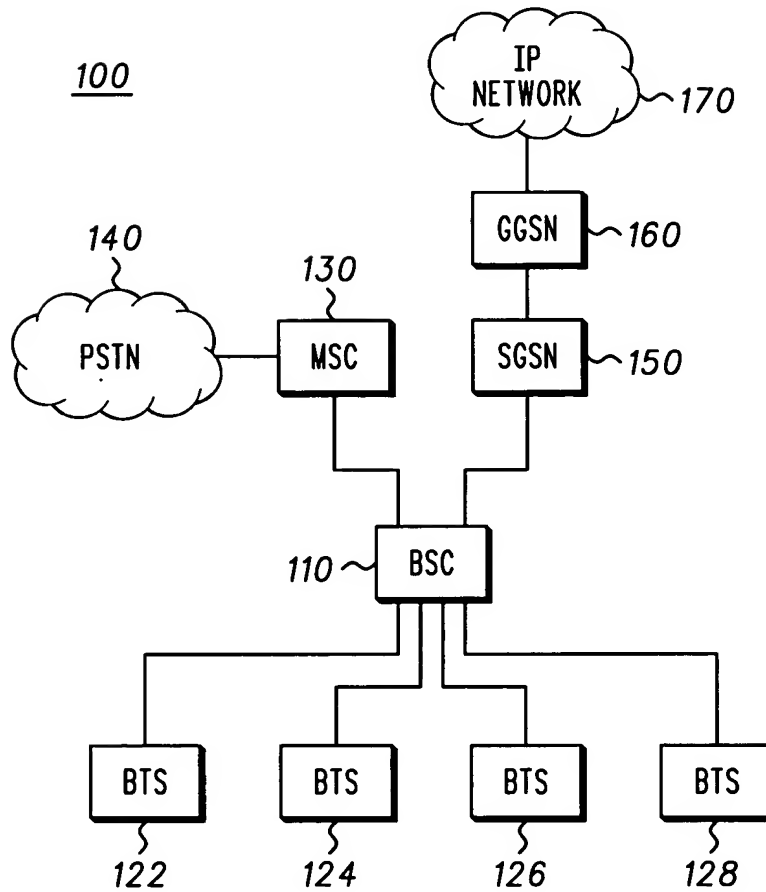




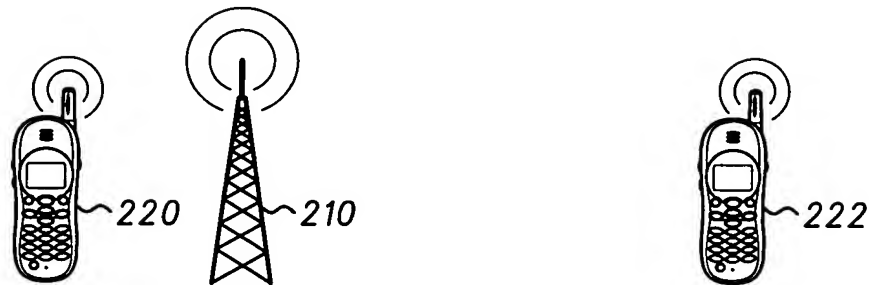
**GSM NETWORK**



**FIG. 1**

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TIMING ADVANCE  
USED TO INSURE TDM FRAME IS RECEIVED AT  
THE BTS AT THE CORRECT TIME

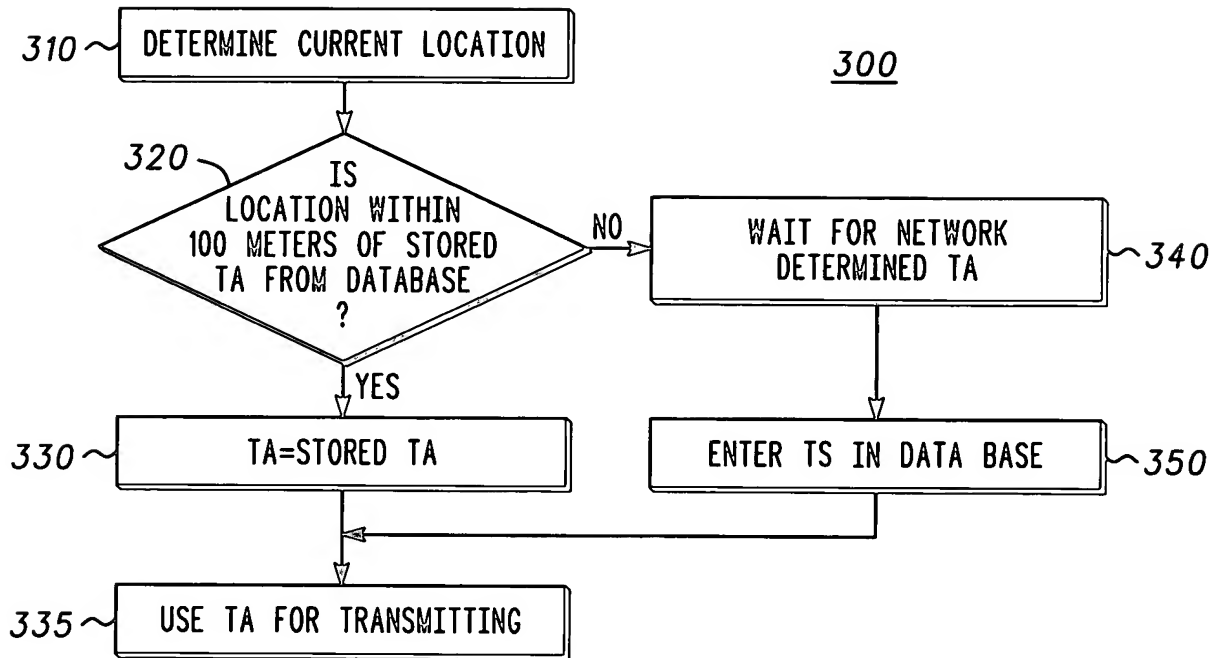


A MS NEXT TO THE CELL SITE  
HAS ZERO TIMING ADVANCE

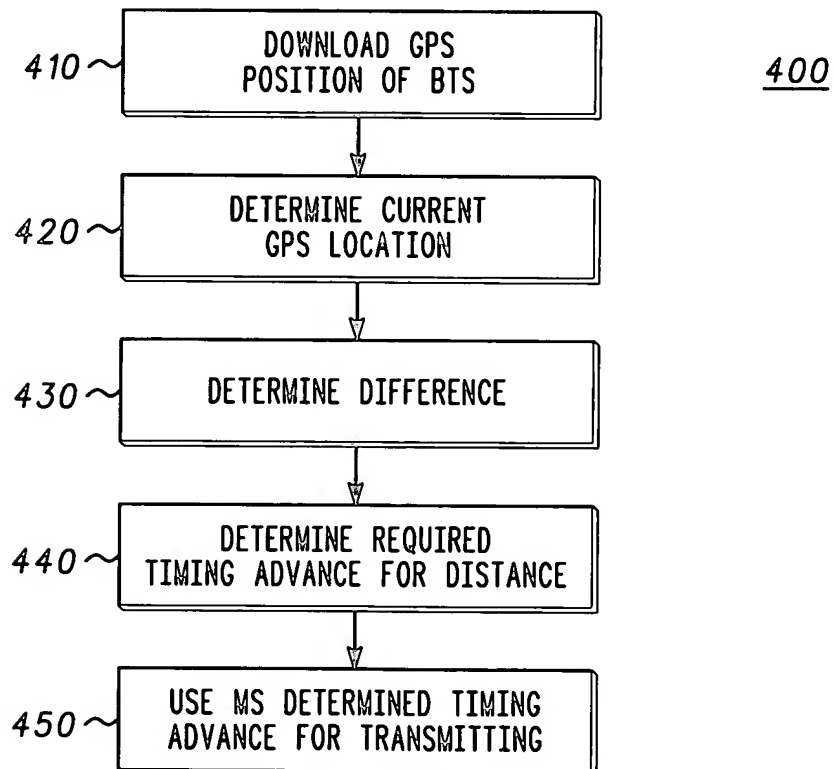
A MS AT THE EDGE OF THE CELL HAS  
THE HIGHEST ADVANCE FOR THAT CELL  
-MS STARTS TRANSMISSION EARLIER TO  
OVERCOME THE PROPAGATION DELAY

**FIG. 2**

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*FIG. 3*



*FIG. 4*

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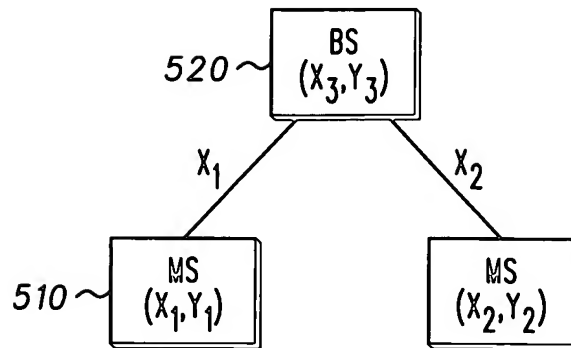


FIG. 5

600

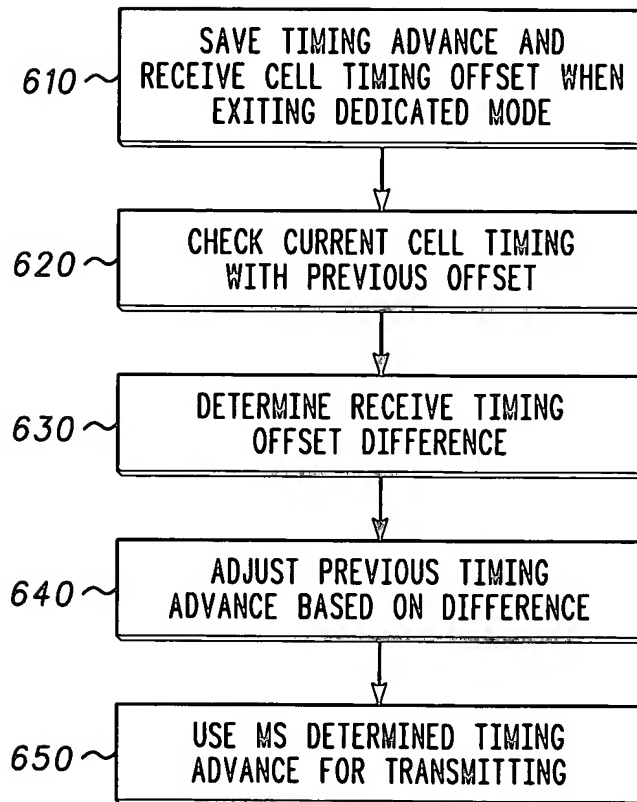


FIG. 6

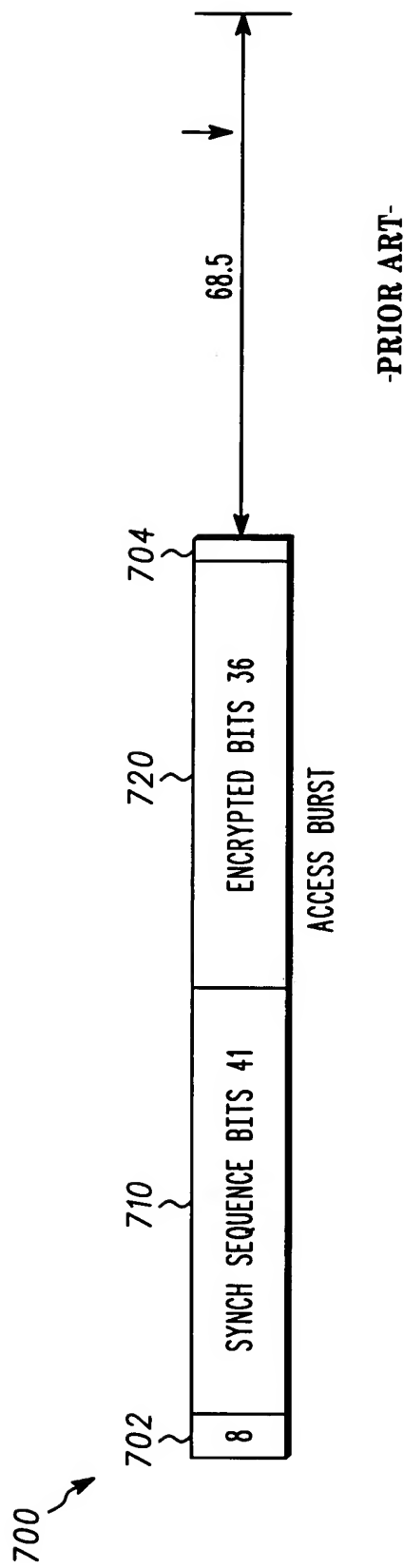


FIG. 7

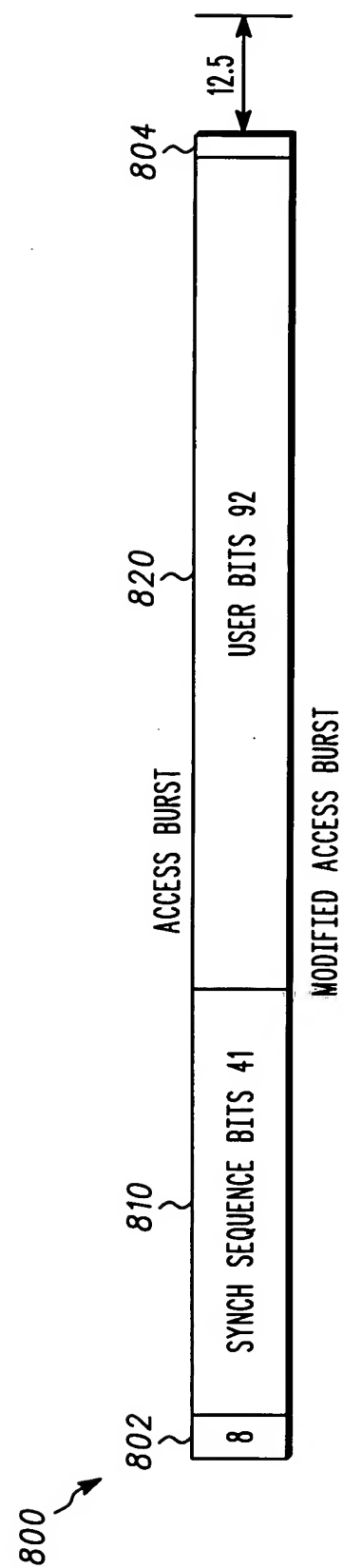


FIG. 8

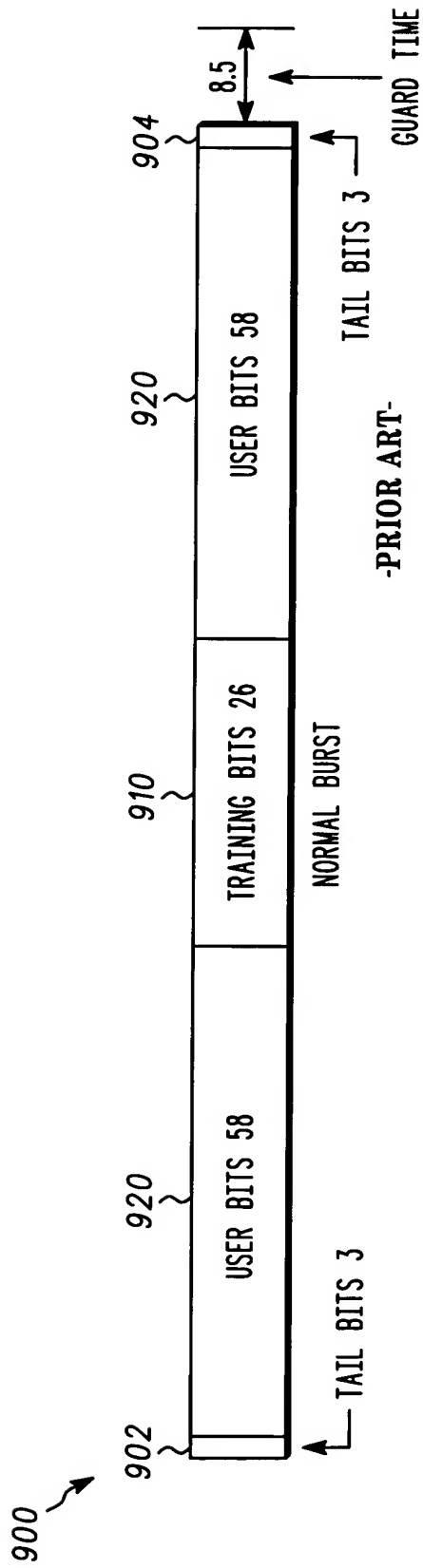


FIG. 9

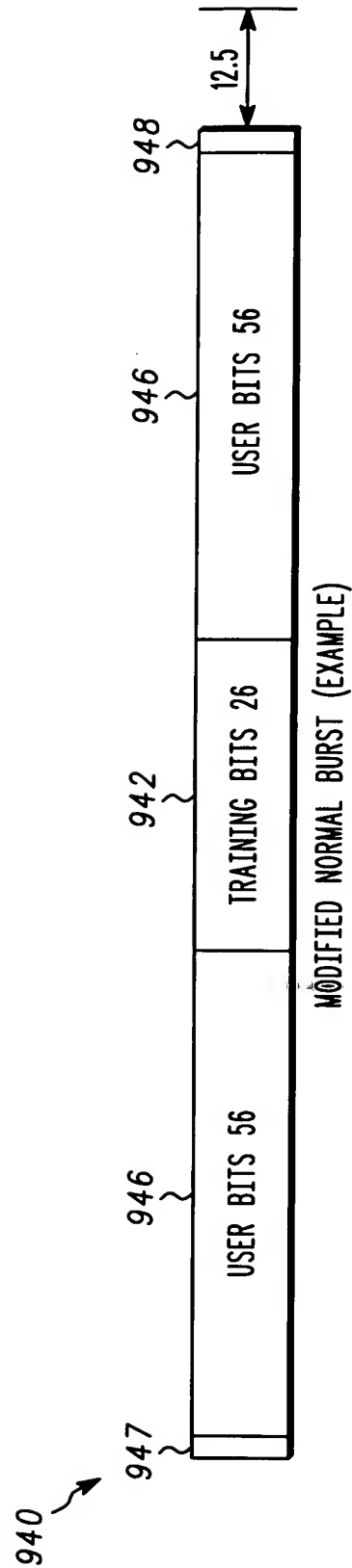


FIG. 10